

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

INTERLOCHEN CORPORATION dba SIKESTON SAND COMPANY

Pursuant to "The Land Reclamation Act," RSMo. 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of sand & gravel in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 21 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Scott	23	26N	14E	20	0	20	*Sikeston Pit #1	0239
Scott	23	26N	14E	1	0	1	Sikeston Pit #2	0893

*Site permitted for reclamation only

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 8th day of September 2004

Permit No. 0150

Effective Date 09/08/2004

Expiration Date 07/31/2005

MO 780-1122 (6-95)


DIRECTOR OF STAFF

Land Reclamation Commission

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FORM FOR INDUSTRIAL MINERAL MINES

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL Sikeston Sand Company		DATE 7/8/2004	
ADDRESS 4919 Lamar Avenue	CITY Mission	STATE KS	ZIP CODE 66202
CONTACT PERSON Peter Powell		TELEPHONE (913) 262-7263	

FEES: COMPLETE SECTION I OR SECTION II

Section I. Fees: Open pit operators and those mining more than five thousand (5,000) tons of sand and/or gravel:

1. To compute the site fee complete the columns and lines below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six (6) months per permit year pay \$150.00 For sites operated six (6) months or more per permit year pay \$300.00
1. Sikeston Sand Pit #1	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$150.00
2. Sikeston Sand Pit #2	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$150.00
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL SITE FEE		\$300.00

2. Acreage fee \$5 X 21 number of acres bonded..... \$105.00


3. Annual Permit Fee..... \$500.00

4. Total Fee: Add totals from 1, 2, and 3..... \$905.00*


NOTE: If Total Fee exceeds \$2,500.00 then pay only \$2,500.00

SECTION II. FEES: Sand and/or gravel operators mining less than five thousand (5,000) tons per year:

1. Annual Permit Fee..... \$300.00

SIGNATURE OF APPLICANT 	TITLE President	DATE 7-9-04
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Appeared before me this 09 day of July, 2004
to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE Kansas	COUNTY (OR CITY OF ST. LOUIS) Johnson
	SUBSCRIBED AND SWORN BEFORE ME, THIS	
	DAY OF 20	RUBBER STAMP CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE  NOTARY PUBLIC NAME (TYPED OR PRINTED) Kirsten Tharp	MY COMMISSION EXPIRES 11/26/2007

KIRSTEN A. THARP
Notary Public - State of Kansas
My Appt. Expires 11/26/2007

FOR DEPARTMENT USE ONLY: APPROVED BY 	DATE APPROVED 8/31/04	PERMIT NUMBER 0150	EXPIRATION DATE 7/31/05
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MO 780-1780 (12-02)

*Since neither site is planned to be in operation during the permit year, Section II fees (<5,000 TPY) are applicable instead of Section I.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER

Sikeston Sand Co. Sandpit

PERMIT NUMBER

150

COMPANY NAME

Sikeston Sand Company

COUNTY

Scott

1/4 SECTION

NW

SECTION

23

TOWNSHIP

26N

RANGE

14E

ACRES

20

RIVER OR STREAM NAME (FOR INSTREAM ACRES)

N/A

MINERAL COMMODITY

Sand

ESTIMATED TONS YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)

William N. Hedrick & Thomas W. Hedrick

ADDRESS

P.O. Box 1087

CITY

Sikeston

STATE

MO

ZIP CODE

63801

SOURCE OF RIGHT TO MINE (CHECK ONE)

☐ MINERAL DEED

☐ LEASE

☒ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE)

DATE OF AGREEMENT

1/1/80

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)

same

ADDRESS

CITY

STATE

ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE)

☐ MINERAL DEED

☐ LEASE

☐ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE)

DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

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RECLAMATION COMMISSION

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: July 31, 2000

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Very sandy pastureland, flat topography. The plan covers an area of approximately 20 acres (see attached map). The area is bordered to the east by St. George Lane.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6 to 8 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil is removed by front-end loader. Topsoil will be cleared to a distance of 30' ahead of the pit to ensure that adequate topsoil is available for reclamation.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil is stockpiled, spread out, and compacted by front-end loader. It is reseeded to prevent erosion. Topsoil will be placed in a stable location (at the northern end of the property).

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil is stockpiled by front-end loader. The stockpile is at the north end of the property. There is very little spoil and, therefore, no need to dispose of it. The spoil consists of roots, large oversize rocks (4"-6"), etc.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached map.

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YES NO

- | | | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.) |

A. REVEGETATION (Attach additional sheets, if needed)

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

At the beginning of the first growing season following topsoil replacement, the seed will be broadcast. The equipment used will most likely be a disc.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue*	15	Willow	Natural Establishment
Orchard Grass	8	Sycamore	Natural Establishment
Timothy	6		
Red Clover	4		
*recommended by Jeff Killelea of the Land Reclamation Program			

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING	

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
		<div style="text-align: center;"> <p>RECEIVED</p> <p>JUL 01 1998</p> <p>MISSOURI LAND RECLAMATION COMMISSION</p> </div>	

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MC 700-1327 (12-91)

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The proposed reclaimed topography will be flat. The area on which the topsoil is laid will be about 12" above grade (the combined depth of topsoil and subsoil). All topography will be traversible by farm machinery. Slopes of the pit will be graded to a 5:1 slope to the water's edge, if necessary.

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C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading and topsoiling will be completed within 12 months of the expiration of the permit or permit renewal under which the surface mine disturbance is secured.

REPLACEMENT OF TOPSOIL

Topsoil ("A horizon") and subsoil ("B horizon") will be replaced to a combined uniform depth of 12 inches, and disced to reduce compaction. Topsoil will be replaced within one year after the expiration of permit or permit renewal on all mined-out portions.

REVEGETATION

Seeding will be performed during the first optimal seeding period following topsoil replacement. Seeding will be complete within 24 months after the expiration of the permit or permit renewal, with survival of vegetation by the second growing season.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

The combined depth of A horizon and B horizon will be 12 inches.

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	2½
Agricultural (pasture, cropland, and horticultural)	9½
Development (residential, industrial, and recreational)	
Water impoundments (for wildlife, agricultural, or development)	8

Total: 20

By my signature, I attest to the following:

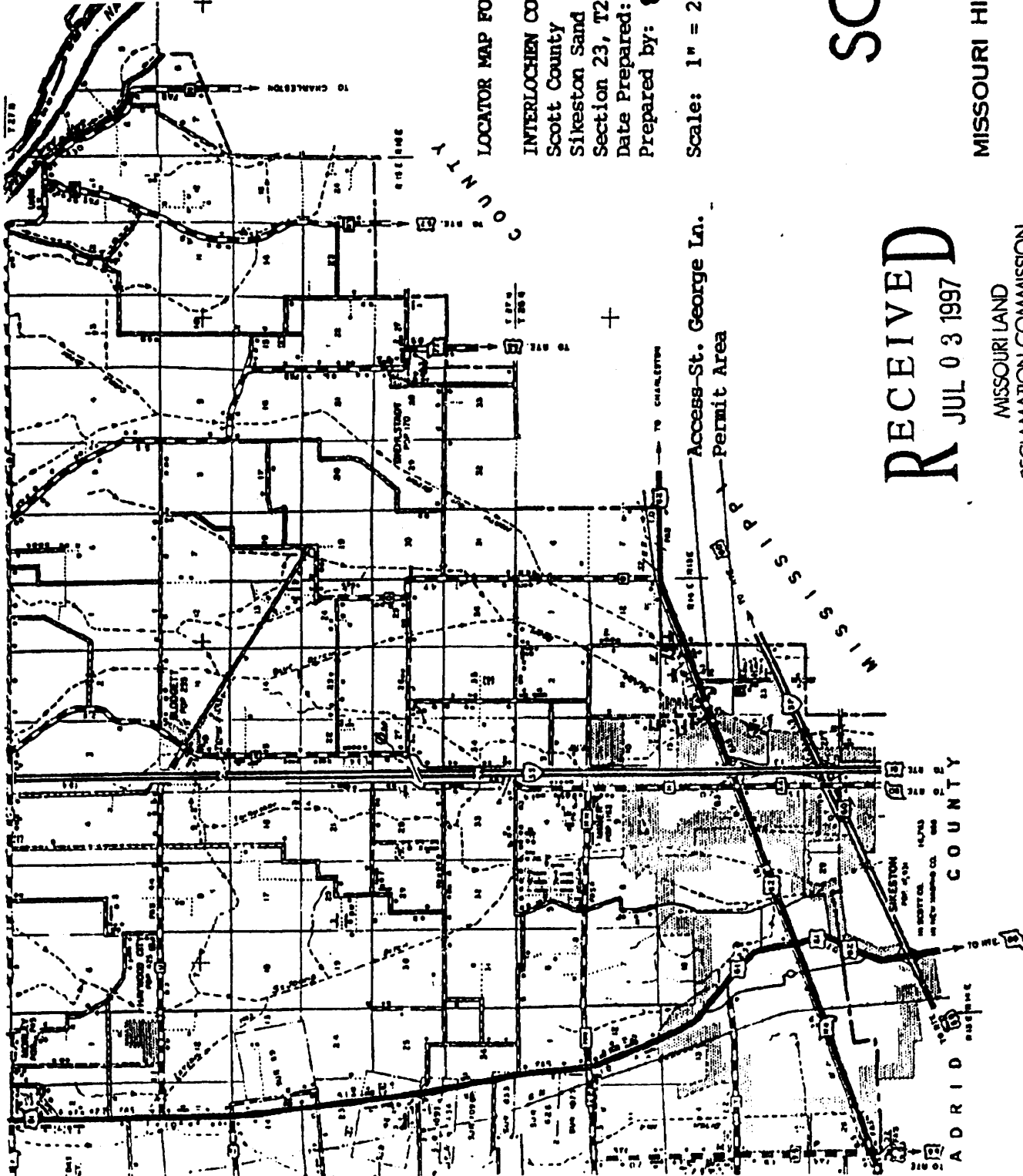
1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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SIGNATURE OF APPLICANT <i>JK Sammons</i>		TITLE U-P	DATE 6-30-98
NOTARY PUBLIC EMBOSSEER SEAL DONNA R. STACK Notary Public - State of Kansas My Appt. Expires 6-4-2002	STATE KANSAS	COUNTY (OR CITY OF ST. LOUIS)	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 30 DAY OF June 19 98		
NOTARY PUBLIC SIGNATURE <i>Donna R. Stack</i> NOTARY PUBLIC NAME (TYPED OR PRINTED) DONNA R. STACK		MY COMMISSION EXPIRES 6-4-2002	USE RUBBER STAMP IN CLEAR AREA BELOW
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>[Signature]</i>		DATE APPROVED 8-3-98	PERMIT NUMBER 0150

GREEN
FILE



LOCATOR MAP FOR:

INTERLOCHEN CORP./SIKESTON SAND CO.

Scott County

Sikeston Sand Sandpit - pit 2.60 acres

Section 23, T26N, R14E

Date Prepared: 12/21/97

Prepared by: [Redacted]

Rory Budge

Scale: 1" = 2 Miles

GENERAL HIGHWAY SCOTT CO MISSOURI

PREPARED BY THE
MISSOURI HIGHWAY AND TRANSPORT
DIVISION OF PLANNING
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

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DETAIL MAP FOR SIKESTON SAND CO.

Sikeston Sand Sandpit
 Scott County
 Section 23; T26N, R14E
 Date Prepared: 2-19-98
 Prepared by: Curtis Heider, EEC
 Scale: 1" = 330'

Owners: W.N. Hedrick
 & T.W. Hedrick

Topsoil Removed
 (active mining area)
 (3½ acres)

Nearest Public Road

ST George Line

Active

Mining Area

Topsoil storage
 (existing area --
 to be moved to
 area north of
 water impoundment)

OPEN
 WATER

After reclamation:
 8 acres (in center)
 to be water
 impoundment;
 2.5 acres
 (surrounding water)
 to be wildlife
 area; and 9.5 acres
 (remaining outer
 part of mine plan
 area) to be
 agricultural.

Existing water
 impoundment
 (16 acres)

Topsoil storage
 (½ acre)

Permit Boundary (includes
 boundaries of water impoundment,
 topsoil storage, and active
 mining area - approx. 20 acres total)

North

1998 Report
 Permit 98-150
 Interlockers Corporation Sandpit

plant
 storage

DETAIL MAP FOR INTERLOCHEN CORP./SIKESTON AND CO.

Agricultural Land
(Approx. 2 ac.)

Permit Boundary
(Approx. 8 ac.
Total) 4

Owners: W.N. Hedrick
T.W. Hedrick

N

40'

Nearest
Public Road

Water Impoundment
(Approx. 6 ac.)

Interlochen Corp./Sikeston Sand Co.
Scott County
Sikeston Sand Sandpit
Section 23, T26N, R14E
Date Prepared: 8-5-96
Prepared by: Paul Brooks, P.E., EEC

Scale: 1" = 200'

328'

3.7

186'

3

13.08AC (D)

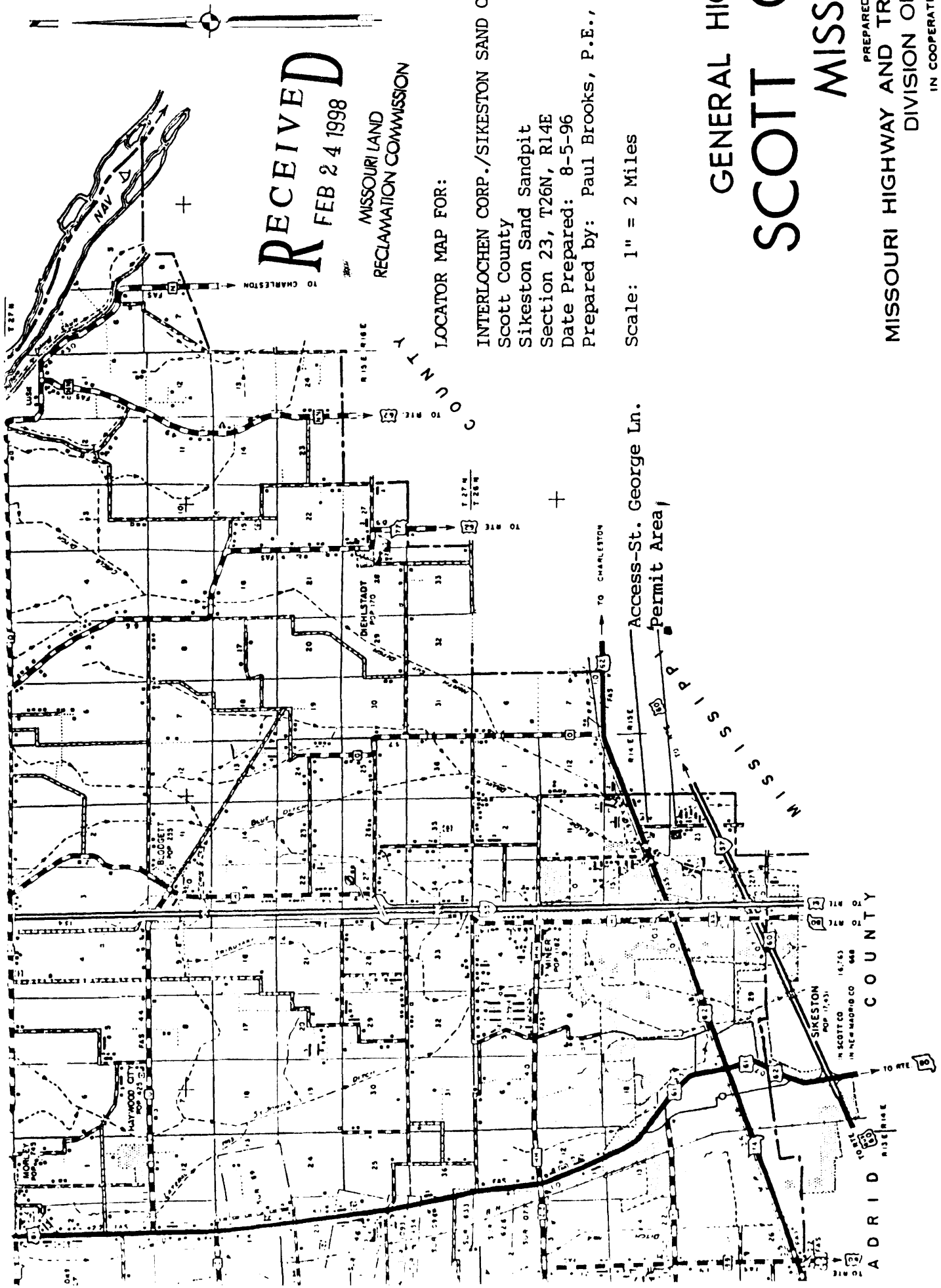
150'

2

150'

ST. GEORGE LANE

348'



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LOCATOR MAP FOR:

INTERLOCHEN CORP./SIKESTON SAND CO.
Scott County
Sikeston Sand Sandpit
Section 23, T26N, R14E
Date Prepared: 8-5-96
Prepared by: Paul Brooks, P.E., EEC

Scale: 1" = 2 Miles

GENERAL HIGHWAY
SCOTT CO
MISSOURI

PREPARED BY THE
MISSOURI HIGHWAY AND TRANSPORT
DIVISION OF PLANNING
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



Locator MAP For
Interbechen Corp. dba Sikston
Sand Co.

Sikston pit #2

Scale 1" = 1200'

Section 23, T26N, R14E

Owners - Skip Clumpeck
Peter Powell.

prepared by Larry Buege

Date of preparation 11/2/99

- Bonded Area.

- Access Road to St. George Lane
And
property Lines.

Highway 62 East and
Interstate 55 Junction

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Detail MAP For -
Intelocher Corp dba S. Keston Sand Co
S. Keston pit #2
Section 23, T26N, R14E
Date prepared 11/2/99

Scale = 1" = 449'

owners - Skip Crumpecker
- Peter Powell

prepared by Rory Buege

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Proposed
Topsoil storage

Topsoil removed
30' from pit

Active mining Area
1 Acre
BOUNDED
Permit boundary
1 Acre.

Mine Plan
Area boundary
60 Acres

Plant

Sand stockpiles

← To St. George Line.

County
drainage ditch

Post mining Land MAP

Intellecten Corp dba Silastor Sand Co.
Silastor Pit # 2

November 29, 1999 - 2059
Scale = 1" = 449'

Date prepared 11/2/99
Prepared by - Bob Bunn

Wildlife
15 Acres

Agriculture
Land not permitted

Permit Boundary

Sloped Pit banks

← To St. George Lane - 1350'

owners - Skip Clumpecker
Peter Powell

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Water Impoundment

45 Acres

~~Bound~~ project
boundary

wildlife
15 Acres

Agriculture



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <i>Sikeston Pit #2</i>		PERMIT NUMBER <i>0150</i>
COMPANY NAME <i>Sikeston Sand Company dba Antelope Corporation</i>		
COUNTY <i>Scott</i>	1/4 SECTION <i>west 1/2, west 1/2</i>	SECTION <i>23</i>
TOWNSHIP <i>26 N</i>	RANGE <i>14 E</i>	ACRES <i>60</i>
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) <i>NA</i>		
MINERAL COMMODITY <i>Sand, Gravel</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) <i>20,000</i>

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>Skip Crumpecker, Peter Powell</i>		
ADDRESS <i>4919 Lamar Ave.</i>		
CITY <i>Mission</i>	STATE <i>KS.</i>	ZIP CODE <i>66202</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ <input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT <i>JAN 3rd 2000</i>

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>Same as Landowner</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES

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MISSOURI LAND RECLAMATION COMMISSION
P.O. BOX 176
JEFFERSON CITY, MO 65102

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <i>Interlochen Corporation dba Sikeston Sand Company</i>		DATE <i>10/30/99</i>	
ADDRESS <i>145 St. George Lane</i>	CITY <i>Sikeston</i>	STATE <i>MO</i>	ZIP CODE <i>63801</i>
CONTACT PERSON <i>Rory Buys</i>		TELEPHONE NUMBER <i>(573) 472-1592</i>	

Check any that apply:

- ☐ New Permit ☐ Permit Renewal ☐ Permit Amendment ☐ Permit Revision ☒ Permit Expansion

SITE NAME OR NUMBER	ACRES TO BE PERMITTED		TOTAL ACRES FOR ALL SITES
	INSTREAM	ALL OTHER	
<i>Sikeston pit #2</i>		<i>1</i>	<i>21</i>

Fees - Complete A or B

A - For sand and gravel operators mining less than 5,000 tons/year
Permit Fee \$100.00
Number of new acres X \$35.00/acre \$

B - For ALL other operations
Permit Fee \$350.00
Number of sites *1* X \$40.00/site \$ *40.00*
Number of new acres *1* X \$35.00/acre \$ *35.00*
Total fees \$ *750.00*

Bonding for all acreage EXCEPT instream - Complete A or B

A - For sand and gravel operators mining less than 5,000 tons/year
Number of new acres X \$500.00/acre ... \$

B - For ALL other open pit operations
Minimum per permit \$ 8,000.00
Acreage over 8 acres *13* X \$500.00/acre \$ *6500.00*
Number of new acres where topsoil will be sold
or discarded *0* X \$4,500.00/acre \$ *-*
Total bonding required \$ *14,500.00*

☐ Check here if adequate bonding is already posted.

List all other Land Reclamation Commission permits previously or currently held by applicant or by companies owned or partially controlled by applicant. If none, write "none" below.

NAME OF COMPANY	PERMIT NUMBER	MINERAL COMMODITY	YEARS
<i>Interlochen Corporation</i>	<i>0150</i>	<i>Sand, Gravel</i>	<i>1996 - present</i>

For any of the above which have been served Cessation of Operations or Bond Forfeiture, or have unabated Notices of Violation, please give:

PERMIT NUMBER	TYPE OF ACTION
<i>NA</i>	

I certify that all statements made on this application are correct, complete, and true, to the best of my knowledge.

SIGNATURE OF APPLICANT <i>Chris Humphrey</i>	TITLE <i>President</i>	DATE <i>12/8/99</i>
Appeared before me this <i>3</i> day of <i>December</i> , 19 <i>99</i> , _____ to me personally known, who executed the above as their free acts and deeds.		

NOTARY PUBLIC EMBOSSEER SEAL DONNA R. STACK Notary Public - State of Kansas My Appt. Expires <i>6-4-2002</i>	STATE <i>KANSAS</i> SUBSCRIBED AND SWORN BEFORE ME, THIS <i>8</i> DAY OF <i>December</i> 19 <i>99</i> NOTARY PUBLIC SIGNATURE <i>Donna R Stack</i> NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>DONNA R Stack</i>	COUNTY (OR CITY OF ST. LOUIS) USE RUBBER STAMP IN CLEAR AREA BELOW MY COMMISSION EXPIRES <i>6-4-2002</i>
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APPROVED BY DIRECTOR'S REPRESENTATIVE <i>William S. ...</i>	DATE APPROVED <i>12-21-99</i>	PERMIT NUMBER <i>150-A1</i>	EXPIRATION DATE <i>7-31-2000</i>
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
DEC 1999

MISSOURI LAND

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: JANUARY 15TH 2000 - JULY 21ST 2059

COMPANY NAME

Intelocher Corp. dba Silston - Grand Co

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Very sandy crop land. Topsoil is largely sand content.

The plan covers an area of 60 acres

Located directly west of previous mine

There is a ditch, creek that borders the extreme north west corner of property. This ditch, creek will not be affected by or influence in any way, the natural drainage of our mine. Primary access road, will be on north east of property and enter from St George Lane.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil is removed by Front end loader And will be cleared approximately 30' Ahead of pit edge to ensure adequate topsoil is available for reclamation.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil is stockpiled, stacked by Front end loader and reseeded to prevent erosion, and placed in accessible location on east and west sides of mine area.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil is gathered and stockpiled by front-end loader.
 Spoil consists of root wads, that eventually compost.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached map
 will start in northeast corner of permit area, and mine to
 the south.

YES NO



Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?



Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)



Will any excavation start at or within fifty feet (50') of any property line?
 (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

MISSOURI LAND

REVEGETATION MIX #1

PURPOSE OR LAND USE

RECLAMATION COMMISSION SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

ok RB

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
ok RB Orchard Grass Timothy Red clover	 8 6 4	 willows Sycamore	 natural Establishment

REVEGETATION MIX #2

PURPOSE OR LAND USE

SEEDING OR PLANTING TIME

Mixture #2

wildlife

spring - autumn

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

At the beginning of the first growing season following topsoil replacement the seed will be broadcast and disced into soil.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard grass Timothy Red clover	 8 6 4	 willows Sycamore	 natural establishment

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING**DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

The proposed topography will be flat. The area on which the topsoil is Re Applied will be about 12" above grade. (the combined depth of topsoil and subsoil). All topography will be traversable by Farm machinery. Slopes of pit banks to be graded to at least a 5:1 slope to the water normal level.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

Grading will be done according to 10CSR40-10.050 (10)A

REPLACEMENT OF TOPSOIL

Replacement of Topsoil will be done in accordance with 10CSR40-40.050 (10)A

REVEGETATION

Revegetation will be done in accordance with 10CSR40-40.050 (10)B

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12'

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

15

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

45

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MISSOURI LAND
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT

TITLE

DATE

NOTARY PUBLIC EMBOSSEER SEAL

STATE

COUNTY (OR CITY OF ST. LOUIS)

SUBSCRIBED AND SWORN BEFORE ME, THIS

8

DAY OF

December

19 97

USE RUBBER STAMP IN CLEAR AREA BELOW

DONNA R. STACK

Notary Public - State of Kansas

My Appt. Expires 6-4-2002

NOTARY PUBLIC SIGNATURE

MY COMMISSION
EXPIRES

6-4-2002

NOTARY PUBLIC NAME (TYPED OR PRINTED)

DONNA R. STACK

APPROVED BY (DIRECTOR'S REPRESENTATIVE)

DATE APPROVED

PERMIT NUMBER